

**Aero Design Ltd.****Work Order Control Sheet**Work Order#: 2017-141 Date Opened: 23 August 2017 Title: FabricationAircraft OEM: Bell Aircraft Model: 205/212 Product Type: Rappel System Product Model: Guard Ring Quantity: 40**Work Order Contents**

Work Order/Build Sheets (Procedures Provided)  
Additional Work Sheets (Standard Practice)  
Drawings (See List Below)  
Parts Distribution Sheet  
Sub Component Tags  
Completed Certification  
Time Sheet (R&D)  
Notes

Initial or N/A

N/A
N/A
JC
JC
N/A
JC
N/A
N/A

**Build Sheet Contents**

Tasks Initialled  
Dual Inspections Initialled

Initial or N/A

N/A
N/A

**Drawing List**

Drawing #	Rev #	Description	Initial or N/A
75821	1	Guard Ring	JC

**Traveller**

Initial or N/A


Work performed by:

ICC / Dual Inspection performed by:

Work Order closed by:

Print: J. Clarke

Print: N/A

Print: J. Clarke

Approved Manufacturing Facility 73-04

Sign:

Sign:

Sign:

Form 20-003

**Component Completion**

As Instructed

Quantity Complete on This Work Order  
Quantity Incomplete on This Work Order  
Further Processing Required Before Release  
Release to Stock as Components

37
N/A
N/A
N/A

**Certification**

Form One Completed  
Serviceable (Green) Tag Completed  
In Process (Yellow) Tag Completed  
Unserviceable (Red) Tag Completed  
Parts Placed in Stores for Distribution

Initial or N/A

JC
N/A
JC
N/A
JC

**Additional Documentation**

Documentation of a minor change  
Non-Conformance Report Required  
Service Difficulty Report Required

Initial or N/A

N/A
N/A
N/A

**Billing**

Local (Aero Design)  
Research and Development  
Third Party

Initial or N/A

JC
N/A
N/A

**Notes:**

No instructions available. Manufacture IAW standard practices per drawings

SCA: AD02

SCA:

SCA: AD02

Date: 15-Aug-18

Date:

Date: 15-Aug-18

Rev. Original 23 Sep 2014



## Aero Design Ltd.

9888 A Malaspina Rd. Powell River, BC, V8A 0G3

Phone: 604-483-2376 Fax: 604-483-2372 E-mail: info@aerodesign.ca

AMF 73-04

Nomenclature: GUARD RING No. of pieces: 8/8

Manufacturer: AERO DESIGN LTD.

Part No.: 75821-01/-03 Serial/Batch No.: PB 16003

TTSN: N/A TSO: N/A Rem.: N/A

Work Order No.: ~~2017-22~~ JC 2017-141

Remaining Tasks to be Performed: ANODIZE ✓

Signature: [Signature]

Date: 04 July 2017 Lic. No. / SCA AD02

In Process



## Aero Design Ltd.

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AMF 73-04

### Remarks

In Process

- 2 x Broken tap +1 Recovered from remaining sides JK.
- 8 x Complete for Anodize 04 July 2017 JK. PO 17054
- 5 x Complete for anodizing 5 Oct 2017 OK PO 17092
- 2 CNC milling procedure missed step. KR 10 Oct 2017
- 24 x Complete for anodizing 05 Apr 2018 JK.
- 24 x ANODIZED PO 18032 JK.
- 37 TOTAL COMPLETE JK.



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AMF 73-04

Nomenclature: GUANO RING No. of pieces: 40/40

Manufacturer: AERO DESIGN

Part No.: 75821-01/-03 Serial/Batch No.: P0 16003

TTSN: N/A TSO: N/A Rem.: N/A

Work Order No.: 2017-22 JC 2017-141

Remaining Tasks to be Performed: MACHINE, DEBURR, INSPECT  
ANODIZE ✓ INSTALL HELICOILS ✓

Signature: [Signature]

Date: 04 JULY 2017 Lic. No. / SCA A002

In Process



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9888 A Malaspina Rd. Powell River, BC, V8A 0G3

Phone: 604-483-2376 Fax: 604-483-2372 E-mail: info@aerodesign.ca

AMF 73-04

Nomenclature: Guard ring X2

Manufacturer: Aero design LTD.

Part No.: 75821-01/-03 Serial / Batch No.: P016003

TTSN: N/A TSO: N/A Rem.: N/A

Removed From: N/A

Reason For Removal: Missed step on CNC

A/C Hours at Removal: N/A WO.# 2017-141

Signature: Kody Berens

Date: 10 oct 2017 Lic. No. / SCA AD-10

Unserviceable





## Aero Design Ltd.

9888 A Malaspina Rd. Powell River, BC, V8A 0G3

Phone: 604-483-2376 Fax: 604-483-2372 E-mail: [info@aerodesign.ca](mailto:info@aerodesign.ca)

AMF 73-04

Unserviceable

### Remarks

DESTROYED 05 APR 2018 JC.



# **Aero Design Ltd.**

9888 A Malaspina Rd., Powell River, BC  
V8A 0G3, 604-483-AERO (2376)

Quantity: 100  
PN: 3585-2CN164  
Aircraft: All  
Description: Coil  
Supplier: Lordco  
Color: N/A  
WO#: N/A

Model: All

PO# 15042

## **HeliCoil<sup>®</sup>** Screw Thread Inserts

S-1000

Part No.

**3585-2CN164**



Control No.

**754160**



Size

**INS H-C 8-32UNC S/L**

Qty

**100**



MS / MA No.

**MS21209C0810**



**STANLEY**

Engineered Fastening  
Danbury, CT 06810

Made in USA with global materials  
Fabriqué aux États-Unis avec des matériaux globaux  
Hecho en los EUA con materiales globales

1. Approving Civil Aviation Authority/Country <b>Transport Canada</b>		2. <b>AUTHORIZED RELEASE CERTIFICATE FORM ONE</b>			3. Form Tracking No. <b>2018-0211</b>
4. Organization Name and Address <b>AERO Design Ltd. – 9888A Malaspina Road, Powell River, BC, V8A 0G3</b>					5. Work Order/Contract/Invoice <b>None</b>
6. Item	7. Description	8. Part Number	9. Qty.	10. Serial/Batch No.	11. Status/Work
1.	Guard Ring, Through	75821-01	27	WO 2017-141	New
2.	Guard Ring, Threaded	75821-03	27		
12. Remarks  <b>Certification data: TCCA STC SH09-2; FAA STC SR02740NY</b> <b>Assembled with #8-32 x 0.5" stainless steel socket head cap screws</b>					
13a. Certifies that the items identified above were manufactured in conformity to:  <input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non approved design data specified in block 12.			14a. <input type="checkbox"/> CAR 571.10 Maintenance Release <input type="checkbox"/> Other regulation specified in block 12 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, has been performed in compliance with the Canadian Aviation Regulations.		
13b. Signature  <b>AD 73-04 02</b>		13c. Approved Organization Number <b>AMF 73-04</b>		14b. Signature	
13d. Name <b>Jeff Clarke - AD02</b>		13e. Date (dd/mm/yyyy) <b>15 Aug 2018</b>		14c. Approved Organization Number	
				14d. Name	
				14e. Date (dd/mm/yyyy)	
<p align="center"><b>Installer Responsibilities</b></p> <p>This certificate does not constitute authority to install.</p> <p>Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.</p> <p>Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.</p>					

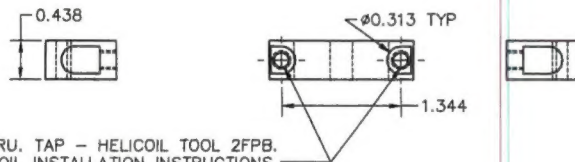
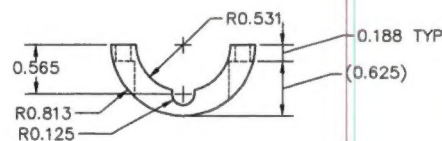
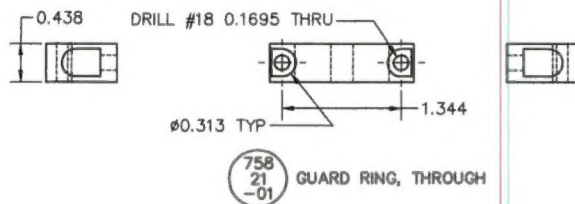
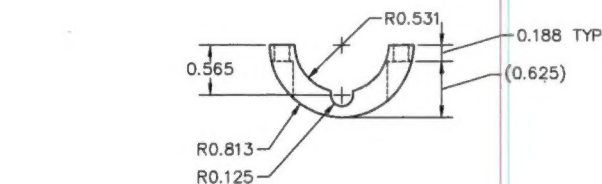


2017-141 JC.  
~~2017-22~~

x40

-2 tap damaged.

PO 16003 1x2



DRILL #17 (.1730) THRU. TAP - HELICOIL TOOL 2FPB.  
 INSERT HELICOIL PER HELICOIL INSTALLATION INSTRUCTIONS.  
 INSTALL HELICOIL WITH LOCTITE2440

REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE		
1	ADDED -2 ASSEMBLY	RR	04/14/09

13 Sept 2017  
 5x Complete

Helicoil 15042  
 #8-32 x 1/2  
 SH CS 17033 JC.

AD  
 73-04  
 02

25 OCT 2017  
 5x Complete

Helicoil 15042  
 #8-32 x 1/2 17033  
 CAPSCREW

AD  
 73-04  
 02

#### NOTES

1. REMOVE ALL BURRS AND BREAK SHARP EDGES.
2. ALL ALUMINUM PARTS TO BE CLEANED AND ALODINED PER S3001 PRIOR TO ASSEMBLY.

15 AUG 2018

24 x Complete Helicoil 15042/17115  
 #8-32 x 1/2 17033  
 CAP SCREW

AD  
 73-04  
 02

#8-40  
 FINE THREAD, too long  
 #3555-2CN964  
 #8-32

3591-2CN246		HELICOIL NO. 8-36 LOCKING			
1	75821-13	GUARD RING, THREADED	6061-T6 ALUM BAR	ASM-QQ-A-200/8	T= 0.5 IN
	75821-03	ASSEMBLY, GAURD RING, THREADED			
03	01	PART NO.	DESCRIPTION	MATERIAL	MATERIAL SPEC STOCK SIZE
QTY	QTY	LIST OF MATERIALS			
<div><div><div>APPROVALS</div><div>DATE</div></div><div><div>DRAWN: R. RATHWELL</div><div>CHECKED: E. BURGAIN</div></div><div><div>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON:</div><div><div>DECIMALS</div><div>ANGLES</div></div><div><div>X.XXX ±0.010</div><div>X.XX ±0.03</div><div>X.X ±0.1</div></div></div></div> <div><div><div>AERO DESIGN LTD.</div><div>CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M 2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7 tel: (403) 250-8027 fax: (403) 860-8333 www.aerodesign.ca</div></div><div><div>BELL 212, 412, 205A-1, 205B RAPPEL MOUNT PROVISION ASSEMBLY, GAURD RING</div></div><div><div>SCALE 1 : 1</div><div>DWG. SIZE</div><div>DWG. NO.</div><div>REV.</div></div></div>					
SHEET 1 OF 1			A2	75821	1

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NOTICE

[illegible]



1. Approving Civil Aviation Authority/Country <b>Transport Canada</b>		2. <b>AUTHORIZED RELEASE CERTIFICATE FORM ONE</b>			3. Form Tracking No. <b>2017-0345</b>
4. Organization Name and Address <b>AERO Design Ltd. – 9888A Malaspina Road, Powell River, BC, V8A 0G3</b>					5. Work Order/Contract/Invoice <b>WO 2017-141</b>
6. Item	7. Description	8. Part Number	9. Qty.	10. Serial/Batch No.	11. Status/Work
1.	Guard Ring, Through	75821-01	6	NSN	New
2.	Guard Ring, Threaded	75821-03	6		
12. Remarks <b>Assembled with #8-32 x 0.5" stainless steel socket head cap screws</b>					
13a. Certifies that the items identified above were manufactured in conformity to:  <input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non approved design data specified in block 12.			14a. <input type="checkbox"/> CAR 571.10 Maintenance Release <input type="checkbox"/> Other regulation specified in block 12 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, has been performed in compliance with the Canadian Aviation Regulations.		
13b. Signature 		13c. Approved Organization Number <b>AMF 73-04</b>		14b. Signature	
13d. Name <b>Jeff Clarke - AD02</b>		13e. Date (dd/mmm/yyyy) <b>13 Sep 2017</b>		14c. Approved Organization Number	
				14d. Name	
				14e. Date (dd/mmm/yyyy)	
<p align="center"><b>Installer Responsibilities</b></p> <p>This certificate does not constitute authority to install.</p> <p>Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.</p> <p>Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.</p>					

**ASCENT HELICOPTERS**

1. Approving Civil Aviation Authority/Country <b>Transport Canada</b>		2. <b>AUTHORIZED RELEASE CERTIFICATE FORM ONE</b>			3. Form Tracking No. <b>2017-0396</b>
4. Organization Name and Address <b>AERO Design Ltd. – 9888A Malaspina Road, Powell River, BC, V8A 0G3</b>					5. Work Order/Contract/Invoice <b>WO 2017-141</b>
6. Item	7. Description	8. Part Number	9. Qty.	10. Serial/Batch No.	11. Status/Work
1.	Guard Ring, Through	75821-01	4	NSN	New
2.	Guard Ring, Threaded	75821-03	4		
12. Remarks <b>Assembled with #8-32 x 0.5" stainless steel socket head cap screws</b>					
13a. Certifies that the items identified above were manufactured in conformity to:			14a. <input type="checkbox"/> CAR 571.10 Maintenance Release <input type="checkbox"/> Other regulation specified in block 12		
<input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non approved design data specified in block 12.			Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, has been performed in compliance with the Canadian Aviation Regulations.		
13b. Signature <i>Jeff Clarke</i>		13c. Approved Organization Number <b>AMF 73-04</b>	14b. Signature		14c. Approved Organization Number
13d. Name <b>Jeff Clarke - AD02</b>		13e. Date (dd/mm/yyyy) <b>25 Oct 2017</b>	14d. Name		14e. Date (dd/mm/yyyy)
<p align="center"><b>Installer Responsibilities</b></p> <p>This certificate does not constitute authority to install.</p> <p>Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.</p> <p>Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.</p>					

**WILDCAT HELICOPTERS**